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## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

- 1. (currently amended) A method of distributing a clock signal over a transmission line, the method comprising:
  - providing a return line geometrically matched to the transmission line; generating an output clock signal onto a transmission line; detecting a returned clock signal on the return line;
- detecting a first phase difference between a reference clock signal and the output clock signal;

detecting a second phase difference between the reference clock signal and the returned clock signal;

controlling the phase of the output clock signal based on an average of the first and second phase differences.

- 2. (currently amended) A method, as set forth in claim 1, further comprising A method of distributing a clock signal, the method comprising:
- generating an output clock signal onto a transmission line;
- detecting a obtaining the returned clock signal by sensing a reflection of the output clock signal on the transmission line;

detecting a first phase difference between a reference clock signal and the output clock signal;

- detecting a second phase difference between the reference clock signal and the returned clock signal;
- controlling the phase of the output clock signal based on an average of the first and second phase differences.
- (canceled)

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- 4. (previously presented) A method, as set forth in claim 2, wherein the reflected signal is sensed by comparing the output clock signal with a composite signal from the transmission line, the composite signal including the output clock signal and a reflection of the output clock signal from the destination.
- 5. (previously presented) A method, as set forth in claim 1, wherein the step of controlling the phase of the output clock signal comprises driving a voltage controlled oscillator using the average of the first and second phase differences.
- 6. (previously presented) A method, as set forth in claim 5, further comprising buffering the output of the voltage controlled oscillator.

(currently amended) A method, as set forth in claim 5, further comprising A
method of distributing a clock signal, the method comprising:
generating an output clock signal onto a transmission line:
detecting a returned clock signal;
detecting a first phase difference between a reference clock signal and the
output clock signal;
detecting a second phase difference between the reference clock signal and
the returned clock signal;
controlling the phase of the output clock signal based on an average of the
first and second phase differences by driving a voltage controlled oscillator using the
average of the first and second phase differences; and
buffering the output of the voltage controlled oscillator and providing a build
out impedance to match the transmission line impedance.
mpedance.

8. (canceled)

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wherein the signal return line is matched to the transmission line.

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## Amendments to the Drawings:

No amendments to the Drawings are requested herein.